"NUCLEAR POWER IN UTAH: COSTLY, RISKY AND UNNECESSARY"

By Christopher Thomas, Executive Director

HEAL Utah

HEAL UTAH POWERING ACTION TO PROTECT UTAH

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OUR CONCERNS ABOUT
THE GREEN RIVER NUKES
(And more generally nuclear
power in Utah)
Cost
Water Use
Safety
Alternatives Exist

NUCLEAR: COSTS TO CONSUMER

- 11 cents to 18 cents per kilowatt hour
- Utah currently pays roughly 7.5 cents
- National average about 10 cents
- One Utah Power Producing entity (2012): Natural gas 6.5 cents; wind 7; solar PV 10; nuclear 11

- Those high prices exist even with big federal supports for nuclear
  - Caps on liability
  - Federal loan guarantees

Wall Street on Nuclear

- "Natural gas would have to be more than 50 percent more expensive than it is today before building a new nuclear power plant would make clear economic sense," – Standard & Poor's
- "In liberalised energy markets, building nuclear power plants is no longer a commercially feasible option: they are simply too expensive." – The Economist
- "It's just hard to justify nuclear, really hard. Gas is so cheap and at some point, really, economics rule," Jeff Immelt, the chief executive of General Electric, one of the world's largest suppliers of atomic equipment, told the Financial Times. "So I think some combination of gas, and either wind or solar … that's where we see most countries around the world going."

CWIP: Risk to Customers

- "Allowing utilit ower plant construction w rapped customers with possibly la ls. According to Progress Energ vice Commission, the average Pro ated increase of nearly $50 per tal additions.." – Mike Fasano, Fl
- A Utah legislati ear CWIP bill in 2007, but did n ntage it would give to nuclear pow gy

NUCLEAR TODAY

- Nuclear "renaissance" fading
- Considerable subsidies not enough
- Cost overruns remain a problem

Duke Energy and its William States Lee III reactors

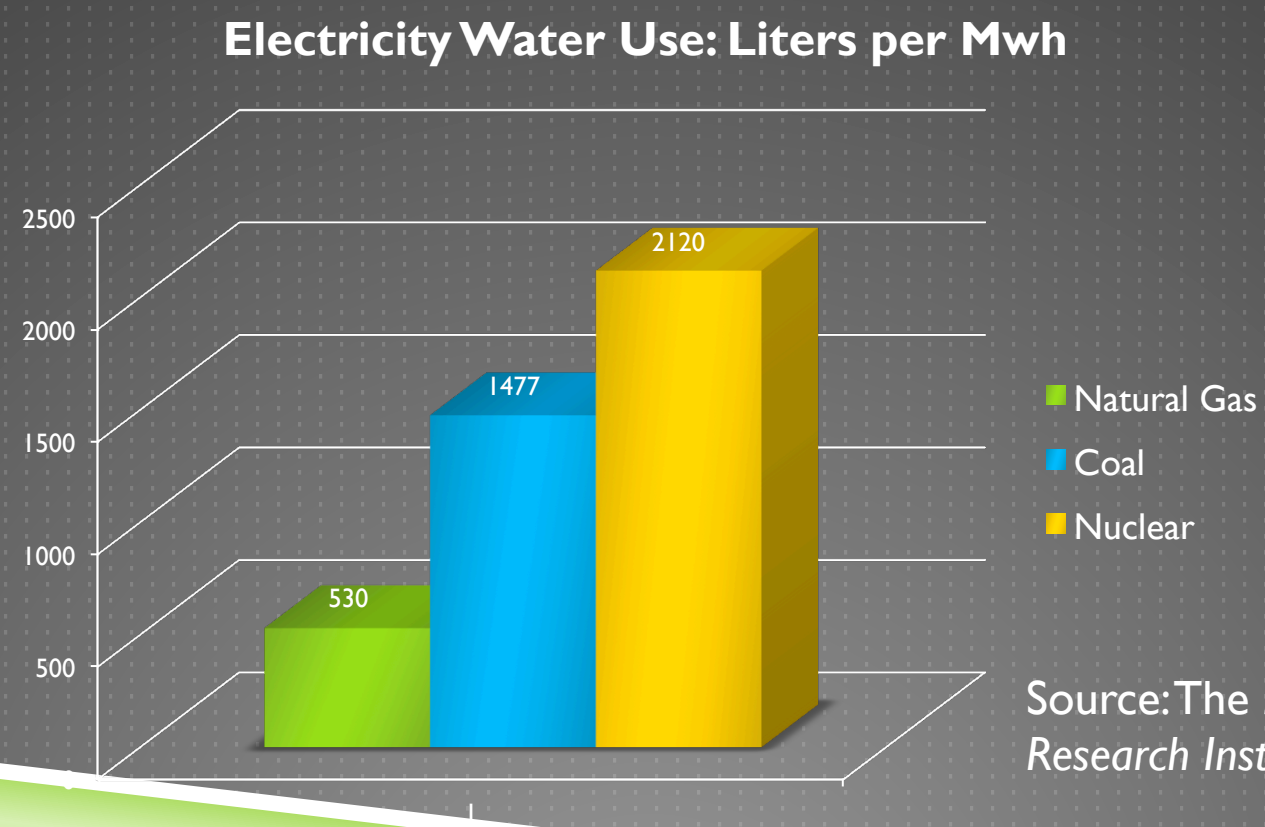
2007 Cost Estimate: $5-$6 billion.
2008 Cost Estimate: $11-$14 billion.
2011 Cost Estimate: ???

Progress Energy and its two Levy County reactors

2007: Cost Estimate: $9.4 billion
2008: Cost Estimate: $13 billion
2011: Cost Estimate: $17.2 billion

NUCLEAR POWER WATER USE

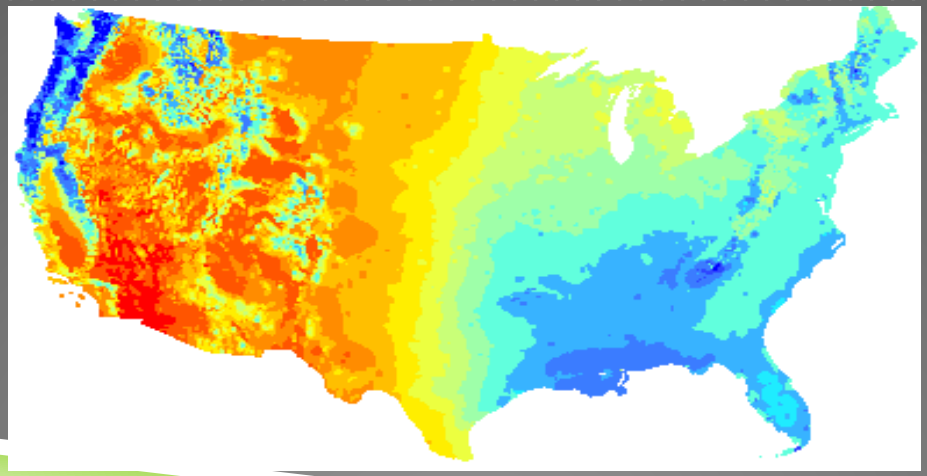
- Uses much more water than other ways of making electricity



Source: The *Electric Power Research Institute* (*EPRI*)

UTAH AND WATER

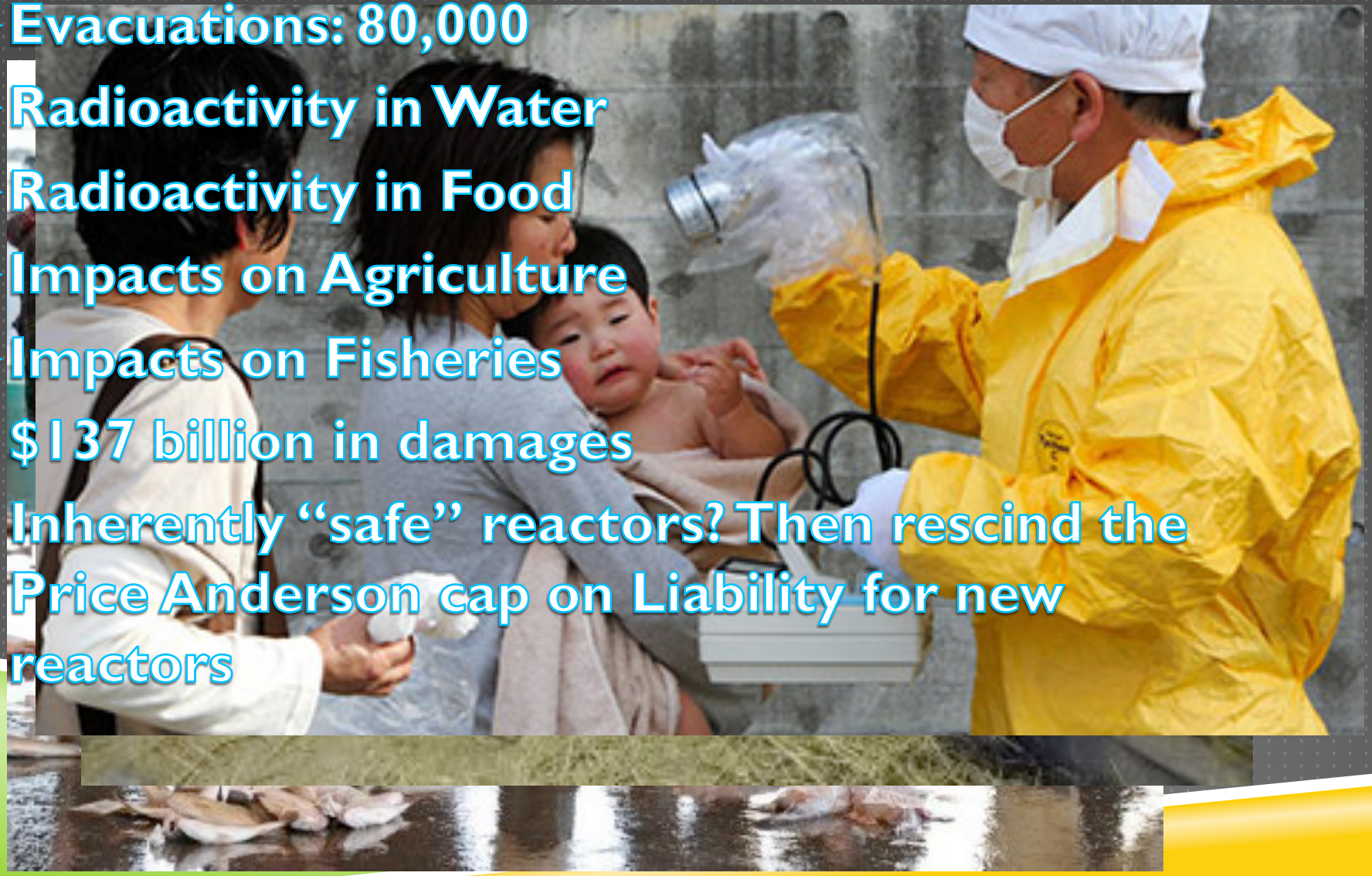
- Already facing serious water pressure
- Population of state expected to double in next 40 years
- Possible impacts of climate change – increasing droughts, less snowpack
- What kind of electricity-making should we choose? The kind that uses the most water?



FUKUSHIMA: THE IMPACTS

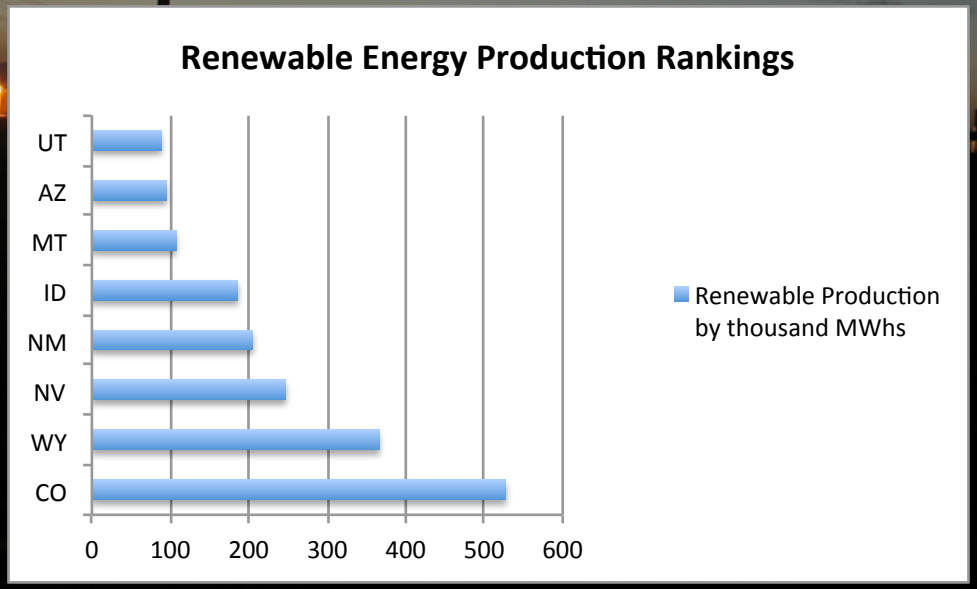
- Evacuations: 80,000
- Radioactivity in Water
- Radioactivity in Food
- Impacts on Agriculture
- Impacts on Fisheries

- $137 billion in damages
- Inherently "safe" reactors? Then rescind the Price Anderson cap on Liability for new reactors



ALTERNATIVES EXIST

- Only 2-3 percent of the electricity in Utah comes from wind and solar power
- Utah WORST renewable energy producer in the Intermountain West in the last 12 months, according to EIA data

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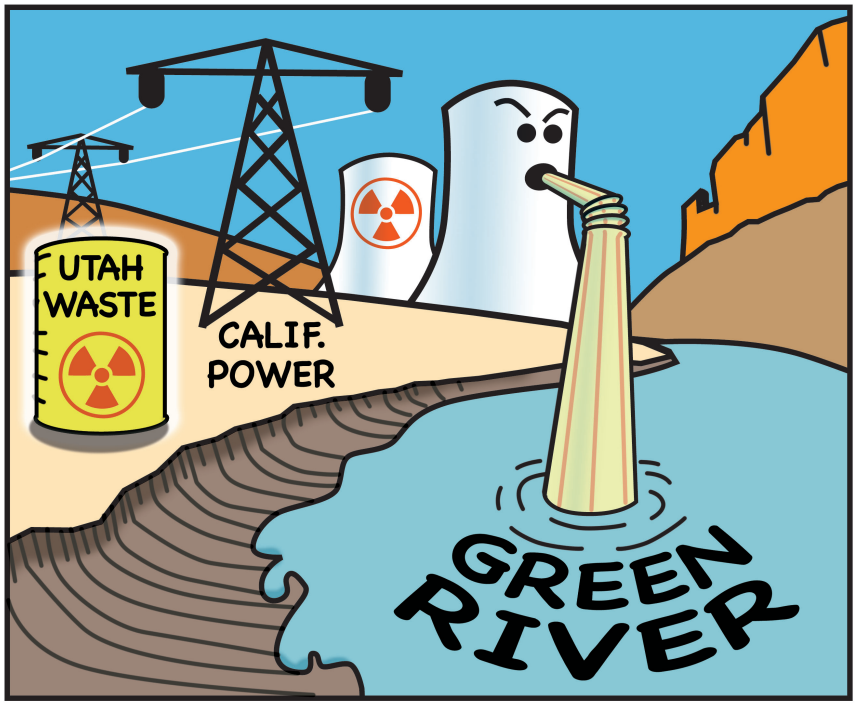

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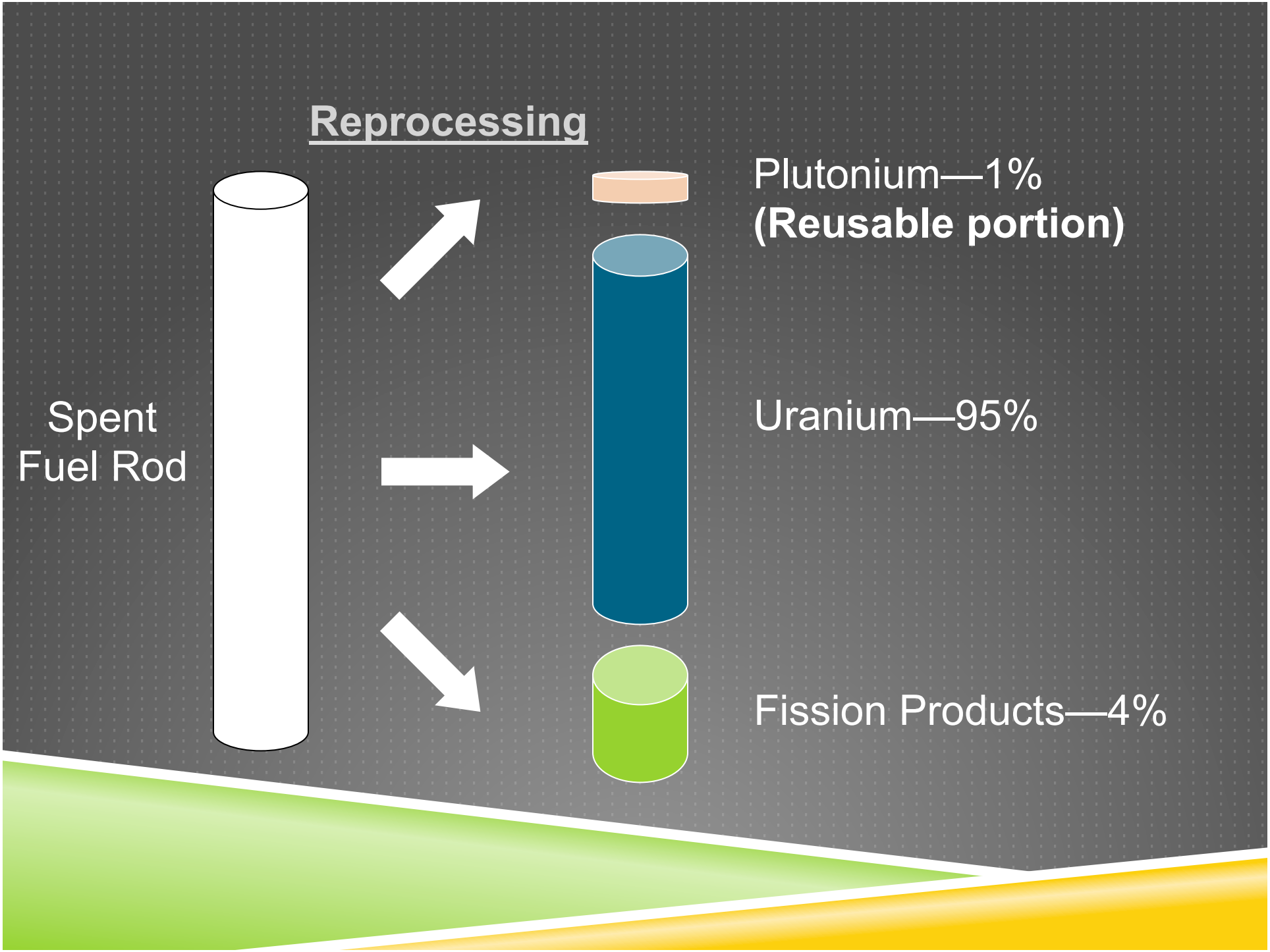
Reprocessing
Spent
Fuel Rod
Plutonium—1%
(Reusable portion)
Uranium—95%
Fission Products—4%